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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/692,527	10/18/2000	Timothy Weidman	003984/DD/LOW K	7896	
32588	7590 10/08/2003		EXAMINER		
APPLIED MATERIALS, INC.			NOVACEK,	NOVACEK, CHRISTY L	
2881 SCOTT BLVD. M/S 2061 SANTA CLARA, CA 95050			ART UNIT	PAPER NUMBER	
5.1.1.1.1.0.5.1	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2822		
			DATE MAILED: 10/08/200	DATE MAILED: 10/08/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			1410			
Office Action Summary		Application No.	Applicant(s)			
		09/692,527	WEIDMAN ET AL.			
		Examiner	Art Unit			
		Christy L. Novacek	2822			
Th MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)	Responsive to communication(s) filed on 15 J	<u>uly 2003</u> .				
2a) <u></u>		s action is non-final.				
3)						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-45 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-33 and 35</u> is/are allowed.						
6)⊠ Claim(s) <u>34</u> is/are rejected.						
7)	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>15 July 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			

Application/Control Number: 09/692,527

Art Unit: 2822

DETAILED ACTION

This Office Action is in response to the request for continued examination and the amendment filed July 15, 2003.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 15, 2003 has been entered.

Response to Amendment

The amendment of claims 3, 10 and 11 are sufficient to overcome some of the objections to the specification and the rejections of claims 3, 10 and 11 under 35 U.S.C. 112, first paragraph stated in the office action mailed March 11, 2003. Therefore, these objections and rejections are withdrawn.

The limitations of retaining the silicon carbide or carbon-doped oxide films on the semiconductor structure which were added to claim 1, 22, 23 and 39 are sufficient to overcome the Annapragada et al. (US 6,140,221) and Forbes et al. (US 5,926,740) references. As discussed in the interview conducted with Applicant's representative on June 23, 2003, Forbes does not teach or suggest retaining the ARC layer on the final semiconductor structure.

Art Unit: 2822

Drawings

The corrected drawings were received on July 15, 2003. These drawings are approved. The objection to the drawings stated in the office action mailed March 11, 2003 is withdrawn.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP 608.01(o). Correction of the following is required:

Claim 34 recites the limitation of the a-SiC layer having an etch selectivity ratio of "1.3 or lower". This limitation is not supported by the specification.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 34 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 34 recites the limitation of the a-SiC layer having an etch selectivity ratio of "1.3 or lower". This limitation is not supported by the specification.

Application/Control Number: 09/692,527

Art Unit: 2822

Response to Arguments

Applicant's arguments filed July 15, 2003 have been fully considered and are found to be

Page 4

persuasive. As stated above, the Examiner agrees with Applicant that Forbes does not teach or

suggest retaining the ARC layer on the final semiconductor structure.

Allowable Subject Matter

Claims 1-33 and 35-45 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christy L. Novacek whose telephone number is (703) 308-5840.

The examiner can normally be reached on Monday-Thursday and alternate Fridays 7:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Amir Zarabian can be reached on (703) 308-4905. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

CLN

October 6, 2003

AMIR ZA

SUPERVISORY

MINER

TECUN'C

JUU